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APRIL 18, 2000

FOLEY, HOAG & ELIOT LLP BETH E. ARNOLD ONE POST OFFICE SQUARE BOSTON, MA 02109-2170

VIA-01803

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 01/19/2000

REEL/FRAME: 010536/0774 NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)

ASSIGNOR:

STONE, EDWIN M.

DOC DATE: 10/13/1999

ASSIGNEE:

UNIVERSITY OF IOWA RESEARCH FOUNDATION, THE 214 TECHNOLOGY INNOVATION CENTER OAKDALE RESEARCH CAMPUS IOWA CITY, IOWA 52242-5000

SERIAL NUMBER: 09322357

PATENT NUMBER:

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FILING DATE: 05/28/1999

ISSUE DATE:

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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Form PTO-1593 1/16/100 1	T U.S. DEPARTMENT OF COMMERCE		
(Rev. 6/93)	Patent and Trademark Office		
To the Honorable Commissioner of Patents and Trademarks: Please record the arta	Ched original documents or copy thereof. 1.0 2000		
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)		
Edwin M. Stone			
	Name: The University of Iowa Research Foundation Internal Address: Oakdale Research Campus		
Additional name(s) of conveying party(ies) attached? () Yes (X) No	microal Address. Oakdaie Research Campus		
3. Nature of conveyance:	Street Address: 214 Technology Innovation Center		
	*		
(X) Assignment () Merger	City: Iowa City State: Iowa Zip: 52242-5000		
() Security Agreement () Change of Name			
( ) Other	Additional name(s) & address(es) attached? ( ) Yes (X) No		
Execution Date: October 13, 1999			
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, the e	execution date of the application is:		
A. Patent Application No.(s) U.S.S.N. 09/322,357; filed May 28, 1999	B. Patent No.(s)		
0.0.0.11. 07/322,371, fined May 20, 1999	·		
Additional numbers atta	ched? () Yes (X) No		
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved: (1)		
Name: Beth E. Arnold			
Internal Address: Foley, Hoag & Eliot LLP	7. Total fee (37 CFR 3.41)\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	(X) Enclosed		
Street Address: One Post Office Square	() Authorized to be charged to deposit account		
City: Beston State: MA ZIF: 02109-2170	8. Deposit account number:		
	06-1448		
	(Attached duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE			
9. Statement and signature.			
To the best of my knowledge and bettef, the foregoing information is true and correct and any attached copy is a true copy of the original document.			

Total number of pages including cover sheet, attachments, and document: (3)

Signature

Beth E. Arnold, Reg. No. 35,430

Name of Person Signing and Reg. No.

I, Edwin M. Stone, of Iowa City, Iowa, in consideration of One Dollar and other valuable consideration paid to me

## The University of Iowa Research Foundation

a corporation of Iowa, having its principal place of business at 214 Technology Innovation Center, Oakdale Research Campus, Iowa City, Iowa 52242-5000 the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

## The University of Iowa Research Foundation

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement

## Macuiar Degeneration Diagnostics and Therapeutics

described in an application

by

X. Serial No. 09/322,357, filed on May 28, 1999

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and sea	this <u>13<sup>th</sup> day o</u> By:(	Octobe, 19 Edwin M. Stone	999.
State of Iowa	) )ss		
County of Johnson	)	tone and acknowledged the f	, oreg

Then personally appeared the above-named Edwin M. Stone and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 13th day of October, 1999.

Notary Public

My commission expires: 4-19-02

[Notary's Seal Here]

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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DECEMBER 28, 2000

FOLEY, HOAG & ELIOT LLP ANITA VARMA ONE POST OFFICE SQUARE BOSTON, MA 02109-2170



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RECORDATION DATE: 10/18/2000

REEL/FRAME: 011191/0624 NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). ASSIGNOR:

SHEFFIELD, VAL C.

DOC DATE: 05/11/2000

ASSIGNEE:

UNIVERSITY OF IOWA RESEARCH FOUNDATION, THE 214 TECHNÓLOGY INNOVATION CENTER OAKDALE RESEARCH CAMPUS IOWA CITY, IOWA 52242-5000

SERIAL NUMBER: 09322357 PATENT NUMBER:

FILING DATE: 05/28/1999 ISSUE DATE:

TARA WASHINGTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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U.S. DEPARTMENT OF COMMERCE

Form PTO-1595 (Rev. 6/93)	Patent and Trademark Office
OMB No. 0651-0011 (exp. 4/94) 101502719	area original occuments or copy thereof.
1. Name of conveying party(ies):  Val C. Sheffield  1. O -18 0 0	Name and address of receiving party(ies)     Name: The University of Iowa Research Foundation
Additional name(s) of conveying party(ies) attached? () Yes (X) No	Internal Address: Oakdale Research Campus
3. Nature of conveyance:	Street Address: 214 Technology Innovation Center
(X) Assignment () Merger	City: Iowa City State: Iowa Zip: 52242-5000
() Security Agreement () Change of Name	
( ) OtherExecution Date: May 11, 2000	Additional name(s) & address(es) attached? ( ) Yes (X) No
<ul> <li>4. Application number(s) or patent number(s):</li> <li>If this document is being filed together with a new application, the</li> <li>A. Patent Application No.(s)</li> <li>U.S.S.N. 09/322,357; filed May 28, 1999</li> </ul>	execution date of the application is:  B. Patent No.(s)
Additional numbers a	ttached? () Yes (X) No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: (1)
Name: Anita Varma  Internal Address: Foley, Hoag & Eliot LLP	7. Total fee (37 CFR 3.41)\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Street Address:One Post Office Square	( ) Authorized to be charged to deposit account
City: _Boston State: _MA ZIP: _02109-2170_	8. Deposit account number:  06-1448  (Attached duplicate copy of this page if paying by deposit account)
DO NOT	USE THIS SPACE
9. Statement and signature.  To the best of my knowledge and belief, the foregoing information document.  Anita Varma, Reg. No. 43,221	In is true and correct and any attached copy is a true copy of the original local lo

#### **ASSIGNMENT**

I, Val C. Sheffield, of Coralville, Iowa, as a duly appointed agent of the Howard Hughes Medical Institute, in consideration of One Dollar and other valuable consideration paid to me by

#### The University of Iowa Research Foundation

a corporation of Iowa, having its principal place of business at 214 Technology Innovation Center, Oakdale Research Campus, Iowa City, Iowa 52242-5000 the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

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its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

# Macular Degeneration Diagnostics and Therapeutics

described in an application

X Serial No. 09/322,357, filed on May 28, 1999

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this _ By	y: May of May, 3	Howard Hughes Medical Institute
State of Iowa )		* : • • • • • • • • • • • • • • • • • • •
County of Johnson )		
Then personally appeared the above-named act and deed, before me, this day	of May , 1999.2000	foregoing instrument to be his/her free
[Notary's Seal Here]	Notary Public  My commission expires:	4/18/03